

**HIGHER EDUCATION & TECHNICAL SCHOOLS SUBCOMMITTEE
BOND BILL RECOMMENDATIONS (Rep. White)**

THE CITADEL

Recommended amount to be included in bond bill: \$8 million

\$2,500,000 - Stevens Barracks

Description of the facility:

The Citadel proposes to renovate and repair this barracks that currently houses 442 cadets. Stevens currently contains 205 rooms in the barracks in either a 2-person or 4-person configuration. This barracks represents the only housing facility that has not been renovated to date. The building was built in 1942 with 57,225 square feet to house cadets.

An asset management study identified \$3,100,000 million of requirements to bring the facility to a “green condition” which would extend the life of the building by 10 years which is imperative as The Citadel Master Plan calls for replacing Steven Barracks in 2026. Funding of these maintenance and repair items is critical to extending the life of the building until that time.

The Citadel spent \$550,000 in the current fiscal year to renovate 5 bathrooms (4 male/1 female) and plans to spend an additional \$500,000 to renovate the remaining restrooms in the summer of 2017. School funds are being used as they are available. In addition to the bathroom repairs accomplished this past year, stairwell repairs to include both handrail replacement and resurfacing of the existing stairs were completed and a complete repainting and floor refinishing is scheduled for summer of 2017.

Explanation of the request:

Repairs to exterior windows and doors, plumbing, window HVAC replacements, and facility-wide electrical repairs and maintenance

\$1,500,000 - Stem Lab Renovations

Description of the facility:

The Citadel proposes to renovate 11 biology and chemistry labs housed in Duckett Hall and Byrd Hall. Duckett Hall is a 23,900 square foot building built in 1971, and Byrd Hall is a 49,675 square foot building built in 1968.

Over the past 15 years, the number of majors in Biology and Chemistry have grown 50%, and each program currently serves an additional 450 students through their general education offerings. This has put increased pressure on our existing laboratory spaces. In both buildings, the majority of laboratories have their original lighting, floors, ceilings, and cabinetry.

With current floor designs, there is little room for the movement of students, equipment, and supplies. Faculty have difficulty circulating around the lab during instructional periods. Storage allocations are small and inadequate for items used in contemporary laboratory settings, leading to cluttered benches.

Use of modern pedagogy and innovative instructional methods for student learning are limited in current laboratories. In the biology labs, all have fixed wet bench seating, making it impossible to create flexible seating arrangements to facilitate collaborative learning and small group activities. In the chemistry labs, there is not enough bench space or fume hoods to accommodate inquiry-based learning. In all labs, there is limited integration of computer technology. The renovation will allow for accommodation of growth in the STEM majors.

Explanation of the request:

Repair of bench space and fume hood stations.

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\$4,000,000 - Critical Maintenance

CLEMSON UNIVERSITY

Recommended amount to be included in bond bill: \$25 million

\$10,000,000 - Daniel Hall Renovation

Description of the facility:

Clemson University proposes renovation of Daniel Hall. Constructed in 1969, Daniel Hall is the principal classroom building for Clemson students, housing classes for students from every discipline. It has undergone minimal renovations throughout its lifetime and is therefore in poor condition and unable to support contemporary teaching and learning methods. This project is of high importance towards Clemson's capital strategy of maintaining and improving existing assets for future list and will enable the University to continue using a keystone building centrally located on campus.

Explanation of the request:

Daniel Hall will undergo a gut renovation of the building's systems, auditorium and interior finishes along with an HVAC upgrade. Accessibility will be improved by renovating bathroom and exterior doors.

\$15,000,000 - Martin Hall Renovation

Description of the facility:

Clemson University proposes renovation of Martin Hall. Constructed in 1962, Martin Hall is a 90,000 square foot central academic building in need of an HVAC and complete window replacement. The HVAC system is original to the building and has numerous deficiencies resulting in poor indoor air quality, poor humidity control and inconsistent temperature controls. The windows are single-glaze operable windows which no longer work and are not energy efficient. This renovation is a priority as part of Clemson's capital strategy of maintaining and improving existing assets for future use and will enable the University to continue using a keystone building centrally located on campus.

Explanation of the request:

Replacement of HVAC and complete window replacement

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COLLEGE OF CHARLESTON

Recommended amount to be included in bond bill: \$12 million

\$1,500,000 - 58 George Street

Description of the facility:

The College of Charleston proposes renovation of 58 George Street, an historic home that falls under the protection of the Board of Architectural Review (BAR). As a result, it must be restored or renovated per the direction of the BAR. This building formally housed the John Rivers Communications Museum and is located in the heart of the campus. The house was originally built in 1803 and has 7,622 square feet. It was recently removed from service in fall 2015 based on a report by a preservation engineering firm citing numerous unsafe structural components. In December 2015, limited work was completed to reinforce the internal stair system necessary to allow college staff to begin the removal of the museum items and exhibits. When the building comes back on-line following renovation, it will serve multiple offices on campus. Renovation work will include: reinforcement of masonry; demolish the non-original addition; minor rework of the floorplan to improve utilization and efficiency; framing upgrades to flooring and porch systems; repairs to windows and wood siding as necessary; installation of fire suppression; and installation of new mechanical systems. This project is listed as Year 1 of the 2016 CPIP.

Explanation of the request:

Floors 2-4 of the fully renovated house will be converted from a museum into the new home for the College's Career Center. The relocation of the Career Center to the heart of campus will raise the level of visibility and utilization of center's services; not to mention highlight the College's commitment to its success. In addition to career counseling and assistance with career placement, the College's Career Center serves as a hub for job shadowing, internships, apprenticeship, and other job-training programs. The Career Center is also in the process of expanding its scope to track College of Charleston graduates to help build an active alumni employment base and to track the success of our graduates. 60% of students are currently placed an internship opportunity and the College would like to place 70%. The current 'placement rate' for at the time of commencement: for employment is 52%, goal 60%; for graduate school 14%, goal 18%

\$10,500,000 - Silcox Physical Education and Health Center Renovation

Description of the facility:

The Silcox was initially built in 1939 as a Works Progress Administration project. In its current configuration, the building has a total square footage of 48,904. The building is protected as a historical structure and is in need of major exterior and interior repair. The last renovation was done in 1995. The Silcox is the only dedicated home for the College's School of Education, Health, and Human Performance. The project is listed as Year 3 of the 2016 CPIP as a result of delays due to funding constraints. Renovation work will include significant envelope and masonry repair to eliminate water intrusion; window modernization and replacement; total roof replacement; complete renovation of interior space to bring the building into current code and accessibility compliance; reworking the gymnasium space to move from a 3 floor gymnasium to a 2 floor gymnasium, allowing for an additional floor/square footage for academic and research space; new mechanical systems; and new electrical systems.

Explanation of the request:

The building will remain the primary home of the teaching and research activities of the School of Education, Health, and Human Performance. The School has seen enrollment growth (primarily in the Health majors) of nearly 40% since 2010, and now serves over 4,000 students. The improved space

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efficiency and added square footage from the 3rd to 2nd floor gymnasium conversion will allow the school to meet the space demands generated from enrollment growth in the school. The added space will also be a part of the School's and College's commitment to address the possible 40,000 person teacher shortage South Carolina could face over the next decade. The renovated gymnasium will be designed to meet both athletic/intermural/teaching needs as well as large scale meeting room/event space that is in high demand at the College and the downtown business district.

COASTAL CAROLINA UNIVERSITY

Recommended amount to be included in bond bill: \$8 million

\$1,525,240 - Eldred E. Prince Building

Description of the facility:

The Eldred E. Prince Building was built in 1994 and is two-stories and a total of 30,948 square feet. The building currently houses the College of Education, which has a total of 1,232 students which is 12% of the total student body and is in a central location on the main campus. It continues to be an academic-oriented building, with many students passing through the doors.

Explanation of the request:

Renovation plans include roof, mechanical, plumbing and electrical upgrades, as well as interior and exterior refurbishments.

\$3,214,359 - Kimbel Library

Description of the facility:

The Kimbel Library, at the academic heart of the university, was built in 1976 and is one of the older buildings on the campus. This 41-year old building is a popular meeting place for students as well as a training facility for the Information Technology Department. Students have resources such as help with on-line courses, availability of printers, laptop computers, research guides available to them at the Kimbel Library.

Explanation of the request:

Renovations planned for this building include mechanical, plumbing, interior and exterior refurbishments, FF&E to replace highly utilized equipment and roof repairs. There are extensive electrical upgrades planned for this renovation.

\$1,097,686 - Kearns Hall

Description of the facility:

Kearns Hall was the second building constructed in 1973, on the main campus. It has 31,283 square feet. Kearns Hall currently serves as the hub of our Honors Program and University College. There are tutoring services available to students located in this building such as a Foreign Language Instructional Center, a Mathematics Learning Center, learning assistance in sciences, a Writing Center and structured learning assistance. These centers provide one-on-one consultations for all Coastal Carolina University students working on assignments in CCU courses, regardless of major or level of proficiency. From early brainstorming to the final stages of proofreading, our undergraduate and graduate tutors are available to offer assistance to students in any academic discipline at any stage of their learning process.

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Explanation of the request:

Renovation plans include roof, mechanical, plumbing and electrical upgrades, as well as interior and exterior refurbishments.

\$2,162,715 - Critical Maintenance

FRANCIS MARION UNIVERSITY

Recommended amount to be included in bond bill: \$8 million

\$8,000,000 - Medical Health and Education Classroom Complex

Description of the facility:

Francis Marion University has an array of medical and health science programs to include the Bachelor of Science in Nursing, Master of Science-Nurse Practitioner, Master of Science-Nurse Educator, the Master of Science in Physician Assistant Studies and the Master of Science in Applied Psychology. In addition, third and fourth year medical students from the University of South Carolina School of Medicine use facilities at FMU, McLeod Health and Carolinas Hospital to complete the requirements for their clinical rotations. This past year, the university opened a new health sciences facility to accommodate these existing programs.

Over the past couple of weeks, the university has been approached by donors who wish to purchase an adjoining building for \$3.9M and gift it to the University's Education Foundation. Built in 1906, this 4 story, 32,000 square foot facility served as the County Post Office until its replacement in 1975. Included on the National Register for Historical Places in 1977, the property has previously served as a court house and office space for local law firms and other businesses in the City of Florence.

The university would use this building to expand the growth of existing health and medical programs and house future programs in speech, occupational and physical therapy. By the time the renovation is completed, the nurse practitioner program will have expanded by 25%, the physician assistant program will have added another class and doubled in size, and the third- and fourth-year medical students will have increased by another 30%. In addition, we will be opening our speech therapy within a semester of the building's occupancy. These new and expanded programs will fill a substantial portion of the space provided by the building.

It's FMU's intent to preserve the unique design and beauty of this historic landmark while equipping it to be a contemporary instructional facility. This building is in close proximity to downtown hospitals where most of these students would complete their clinical requirements.

We anticipate the project cost to be \$11.9M to purchase and convert this building. The donor purchase will cover approximately one third of the total cost. The university is requesting capital funding of \$8M to renovate the facility for offices, class-rooms, lecture halls and clinical laboratories. We also anticipate developing a behavioral health clinic to support the university's applied psychology program. This clinic would be operated in cooperation with Hope Health and provide mental health counseling services to the local hospitals, school districts and women/children's shelters.

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Explanation of the request:

The facility is currently being acquired by this group of donors and will be gifted to the University's Education Foundation upon request. Pending funding of this bond bill, Francis Marion will begin the process of title transfer and acquisition through the state capital projects system to acquire the property for renovation. FMU is also updating their CPIP to include this as priority #1 for FY16-17.

LANDER UNIVERSITY

Recommended amount to be included in bond bill: \$7.5 million

\$5,000,000 - Nursing Building

Description of the facility:

Lander's School of Nursing has been housed in Barrett Hall since 1998, and has not had any major renovations or additions. Because of the program's steady growth during that same timeframe, there is now a desperate need for additional space for classrooms, laboratories, and clinical experiences.

Beginning fall 2017, enrollment in the School of Nursing will increase by 50% in order to meet current nursing demands across our state. There is a demand for more seats in the nursing program – in fact, over the last five years, we have seen almost one third of the incoming freshmen class declare Nursing as their intended major. Additionally, graduates over the last five years have seen an employment rate of nearly 100% by the day of graduation.

Barrett Hall has four classrooms, two of which have a capacity of 40 seats; the other two classrooms can accommodate slightly more. Two areas are used as laboratories where students can receive hands-on training, but the spaces require careful scheduling as they are shared among several classes. Current space will only allow for one simulation lab, which is small and also requires careful scheduling for multiple classes. With funding for an addition and renovation to Barrett Hall, the School of Nursing would have space for all new, state of the art laboratories and a simulation center. The simulation center will be outfitted to model the work-flow of a healthcare facility, to create a true clinical experience for students.

Explanation of the request:

To renovate the current nursing building to include additional space for classrooms, laboratories, and clinical experiences.

\$2,500,000 - Critical Maintenance

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SC STATE UNIVERSITY

Recommended amount to be included in bond bill: \$8 million

\$5,000,000 - Information Technology

Description of the facility:

Due to the growth in the number of network applications (i.e. educational, scientific experiments, and business processes) coupled with the increased amount of mobile devices, SC State's dated network has seen a significant increase in traffic. This demand on the dated systems continues to slow educational and operational processes. This has resulted in students not being able to: 1. access learning resources online, 2. complete class assignments in a timely fashion. 3. access student purchasing card system (meals and books). Increases in the number of end-user applications require higher maintenance efforts which ultimately increase operational expenses. The dated network contains several critical resources that store student's sensitive data which must be protected from cybersecurity threats. Our dated system is below the current benchmark necessary to react optimally to cybersecurity attacks. To provide a robust and secure technological learning environment to support student enrollment, retention and success the dated network system must be updated.

Explanation of the request:

Funding priorities:

- Student access, security and purchasing card system (\$250,000)
- Network Security Firewall (\$200,000)
- Reliable Wi-Fi coverage and capability (\$750,000)
- Network Switches – 270 units (\$1,000,000)
- Secure Data Storage – 2 units (\$300,000)
- Passive Optical Network for academic and research buildings – Phase I (\$2,500,000)

\$3,000,000 - Critical Maintenance

UNIVERSITY OF SOUTH CAROLINA COLUMBIA

Recommended amount to be included in bond bill: \$25 million

\$25,000,000 - Old Law School Renovation

Explanation of the request:

The University of South Carolina Columbia requests funding for the comprehensive redevelopment of the existing Law Center into the Science and Technology Center. The updated building will create additional teaching labs and academic space at the west district of the campus. The building is one of the largest academic buildings on the Columbia campus and its location on the western side of the campus is well situated as academic and student life is becoming more concentrated in this district.

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UNIVERSITY OF SOUTH CAROLINA-AIKEN

Recommended amount to be included in bond bill: \$3.5 million

\$3,500,000 - Penland Administration Building

Description of the facility:

The University of South Carolina Aiken is requesting funding to replace the HVAC system in the Penland Administration Building – The USC Aiken campus’ oldest building (40+ years old). The Penland building is among the largest buildings on the USC Aiken campus (over 61,000 square feet.) The Penland building houses multiple classrooms, computer labs and faculty offices as well as student support services such as Enrollment/Admissions, Financial Aid, Records, and Business Services. Further, many of the University’s technology services (including servers) are located in this space. Maintaining proper heating and cooling in this building is critical to fulfilling the mission of USC Aiken.

Explanation of the request:

The proposed project will replace the current 240-ton water cooled chiller with a new, high efficiency 250 ton (estimated) chiller, air handlers, VFDs, pumps, hot water boiler, air separator, refrigerant monitor, chemical treatment, valves, connective piping and ducts, controls and associated electric, roofing, ceiling grid, seismic bracing and plumbing.

The project estimate also includes architectural and engineering services, and other appropriate documentation. The access to the equipment requiring replacement within the building (small corridor/stair access with very low ceiling height) also provides unique challenges to this project, and due to campus-wide space constraints the building must remain operational (heated/cooled) during the HVAC upgrade.

UNIVERSITY OF SOUTH CAROLINA-BEAUFORT

Recommended amount to be included in bond bill: \$8 million

\$8,000,000 - Library/Classroom Expansion

Description of the facility:

USC Beaufort would construct an addition to the existing Library/Classroom building consisting of approximately 16,800 sq. ft. of floor space. This expansion would enhance the central academic core of the USCB’s Hilton Head Gateway Campus. This expansion would include classrooms, faculty offices, and administrative workspaces. This expansion is needed to provide additional classroom and office spaces for our ever growing student population and faculty to serve them. USCB opened classrooms at the Hilton Head Gateway (HHG) Campus in fall 2004. Since that time, enrollment has increased by more than 117%. USCB’s HHG Campus currently has only 17 general purpose classrooms. As documented in USCB’s Facilities Master Plan, USCB has both immediate classroom space needs and a major future classroom space deficit. This shortfall in available space is projected to worsen and, without additional classroom space, become unmanageable over the next five years. Classrooms at the USCB HHG campus are scheduled for more hours of instruction per week than any of our peer institutions and exceeds this standard for SC CHE classroom utilization by 20%.

Additionally, many faculty currently share office space and shared desks in hallways. Over 50% of faculty share offices that were designed for one person, and this overcrowding is also projected to worsen. The latest SC Commission on Higher Education Facilities Utilization report based on Fall 2013 data ranks USCB as the second lowest among all four year public teaching institutions in the State relative to the quantity of assignable square feet of academic space per full time equivalent (FTE) student. USCB is only one of three schools in that same category that meet the SC CHE standard. Additionally, USCB’s fall 2015

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enrollment increased by 13% in FTE students. Based on our most recent internally generated preliminary headcount and FTE report dated 9-6-16, USCB is projecting an additional 2.1% increase in FTE for fall 2016.

Explanation of the request:

Renovate two classroom spaces in the Science & Technology Building into Natural Science laboratories. Replace those two classrooms by adding space to an existing building. Renovate traditional library book stack space into modern 21st century Learning Resource Center.

UNIVERSITY OF SOUTH CAROLINA-UPSTATE

Recommended amount to be included in bond bill: \$8 million

\$8,000,000 - Smith Science Renovation

Description of the facility:

The Smith Science building was constructed in 1984 and has been modified minimally through the years. As enrollments in the science curriculum continue to increase, the existing space needs to be expanded and renovated to meet the teaching and technology demands. To date, we have converted general classrooms to lab space and office suites to research space to try to accommodate the increased demand. This project would upgrade existing space and add much needed teaching lab spaces with fume hoods for the Division of Natural Sciences and Engineering. The renovation of the science laboratories and preparation area at USC Upstate is currently rated as high priority on the college's master plan as well as its annual five year CPIP.

The scope of work will replace existing fume hoods and student work spaces in existing labs and upgrade the mechanical infrastructure. The infrastructure in this building was not designed to meet the needs of the current STEM curricular demands for students or faculty. Many of our current labs need updating to ensure we have recommended station space per student (CHE standard) and to ensure we can accommodate students with disabilities, which is difficult to do in the current space. The current lab tables were built when the building was opened and are in need of replacement. Additionally, with the shifts in majors from pure science focus to more anatomy and physiology to support nursing and exercise science, Upstate needs to convert lab space to align with curriculum trends and to educate the nurses and STEM students.

These funds will also be used to construct an addition adjacent to the existing science building to include additional teaching lab space with fume hoods, large classroom, computer lab, faculty offices, and associated support spaces. This additional teaching laboratory space is needed in order to accommodate increasing numbers of students taking courses in the Division of Natural Sciences and Engineering. Each semester, the Division of Natural Sciences and Engineering, provides labs not only for our ~400 biology and chemistry majors, but also for pre-nursing, physical education, and exercise and sport science majors. In total, approximately 80 laboratory sections are offered each semester with a typical enrollment of 24 students each (or just under 2000 seats per semester). Upstate is critical to serving the needs for healthcare professionals in the upstate; currently, USC Upstate awards more nursing degrees than any other university in the state.

Explanation of the request:

Renovate by adding academic support space to include faculty offices, seminar rooms, and fabrication space for classroom support materials. The renovation will also add a technology laboratory to support the growing graphics design and computational science programs.

UNIVERSITY OF SOUTH CAROLINA-PALMETTO COLLEGE

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Recommended amount to be included in bond bill: \$7.94 million

\$750,000 - Lancaster - Gregory Health & Wellness Center

Explanation of the request:

Facility houses PEDU classes, staff offices, athletic programs and a number of community programs. The roof and HVAC system is at the end of its life expectancy and beyond repair.

\$1,700,000 - Salkehatchie - Walterboro Science Research Building

Explanation of the request:

Convert portion of Walterboro Science Research building converted into needed instruction classrooms, offices, and space economic development events such as hosting perspective industries.

\$4,500,000 - Sumter - Science Building

Explanation of the request:

Renovate current 2300 square-foot building to house classrooms and laboratories for Math, Science and Engineering division. Includes office space for division faculty. Current laboratory facilities are over 50 years old. Outdated labs have to double for lecture rooms. Air-quality, health, and safety are major issues.

\$990,000- Union - Truluck Gym

Explanation of the request:

Addition to include locker rooms, showers, coaches' offices and weight room. Campus added club sports in baseball and softball this year. Men's and women's soccer will be added next year.

THE MEDICAL UNIVERSITY OF SOUTH CAROLINA

Recommended amount to be included in bond bill: \$25 million

\$25,000,000 - Capital Renewal

Description of the facility:

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MUSC requests funding to maintain critical systems to provide an acceptable working environment within facilities for students, faculty, staff, patients, and visitors. Critical systems include mechanical, electrical, plumbing, exterior façade, roofs, conveyance and building envelope. ***MUSC commits to the one-to-one match for capital renewal stewardship funding.***

MUSC - Hospital	\$100,185,000
Ashley River Tower	\$6,495,000
Bee Street CEP	\$615,000
Campus	
Children's Hospital	\$13,231,000
Psych Hospital	\$13,250,000
Rutledge Tower	\$41,860,000
Rutledge Tower Annex	\$2,952,000
Rutledge Tower CEP	\$5,422,000
Sabin Street CEP	\$1,612,000
University Hospital	\$14,748,000
MUSC - University	\$53,068,000
135 CANNON ST. (CANNON PLACE)	\$1,558,500
ALUMNI MEMORIAL HOUSE	\$512,500
BARUCH AUDITORIUM	\$171,000
BASIC SCIENCE BUILDING	\$7,394,500
BIOENGINEERING BUILDING	\$238,500
BSB MECHANICAL EXPANSION BLDG	\$1,714,000
CLINICAL SCIENCES BUILDING	\$8,343,500
COLBERT EDU CENTER AND LIBRARY	\$422,000
COLCOCK HALL	\$208,000
COLL OF HLTH PROF COMPLEX "A"	\$411,000
COLL OF HLTH PROF COMPLEX "B"	\$240,500
COLL OF HLTH PROF RESRCH BLDG	\$723,500
COLLEGE OF NURSING	\$103,000
DARBY CHILDREN'S RESEARCH INST	\$1,589,500
DENTAL CLINICS BUILDING	\$139,000
DRUG DISCOVERY BUILDING	\$154,000
E BUILDING	\$2,456,500
F BUILDING	\$4,197,500
Grounds	\$1,367,000
HARPER STUDENT/WELLNESS CNTR	\$2,261,000
HOLLINGS CANCER CENTER	\$5,331,000
Infrastructure	\$700,000
PSYCHIATRIC INSTITUTE	\$1,443,000
STORM EYE INSTITUTE	\$5,277,000
THURMOND/GAZES RESEARCH BLDG	\$4,488,000
WALTON RESEARCH BUILDING	\$1,624,000
Grand Total	\$153,253,000

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WINTHROP UNIVERSITY

Recommended amount to be included in bond bill: \$10 million

\$6,310,000 - Electrical Distribution Upgrades

Description of the facility:

Because Winthrop University is committed to effective risk management, the university seeks \$6.31 million to enhance its capacity to provide a learning and living environment that is safe and operates efficiently. These are the kinds of renovations, repairs, and refits that may not be apparent to students, faculty, and staff but will result in savings and reduce the university's vulnerability to system failures.

Explanation of the request:

\$2.0 million - Electric Distribution Modernization: In order to bolster the university's well-deserved reputation for sustainability and energy efficiency, Winthrop seeks funding to replace a 47-year-old electric substation, which has been regularly maintained but has reached the point of not warranting further investment of resources. Only four of five circuit breakers continue to function and the connecting wiring is dated. Despite regular maintenance, ongoing issues with cracks and leakages create a potential for system failure. The substation would be replaced by one with five new 4,160-volt circuit breakers and wiring that would be significantly more reliable.

\$2.0 million - Steam Line Renovation and Enhancements: Winthrop seeks funding to replace a system of underground steam and condensate pipes that date from the 1960s and serve 13 buildings across campus. Despite regular maintenance, this steam network is at substantial risk of failure and operates inefficiently as result of extensive cracks and leaking. The replacement of pipes could allow the institution to realize savings that exceed \$100,000 annually.

\$1.1 million - Fire Alarm Upgrades and Enhancements: Winthrop seeks funding to upgrade the university's fire alarm system. Although the system has been regularly maintained, its replacement parts have become scarce and the software used is no longer supported. Upgrades include adding a new central receiver in our Police Department, rewiring building interiors, and replacing and adding additional strobes, horns, public notification screens, and pull stations to meet current standards.

\$210,000 - Full WiFi Coverage in Thurmond Hall: Winthrop seeks funding to create complete WiFi coverage in Thurmond Hall, one of Winthrop's older classroom and office buildings, that houses the College of Business Administration. The building's thick, load-bearing exterior walls and steel-frame construction present a challenge for the installation and deployment of wireless technology. The building lacks cabling pathways or easy access areas such as dropped ceilings and mechanical chases. Existing cabling conduits are filled to capacity and will not accommodate extra cabling needed for wireless access points. New pathways need to be created and will require both vertical (ceiling) and horizontal (wall) penetrations throughout the building. To create these access points, the university will need to create cabling pathways (including fiber and copper wiring), situate 40 wireless access points, add switching equipment, remodel the main telecom closet and add cooling.

\$1.0 million - Roof replacements: Winthrop has an excellent record of maintaining roofs well beyond their expected lifespan. Buildings that now require new roofs because patching and repair have become less effective are Johnson Hall roof (32 years old) and Thurmond Hall roof (77 years old). Both structures are major classroom and office buildings used by hundreds of students on a daily basis.

\$3,690,000 - Critical Maintenance

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SC STATE BOARD FOR TECHNICAL AND COMPREHENSIVE EDUCATION

Recommended amount to be included in bond bill: \$87 million - To be split amongst the schools at the discretion of the SC State Board for Technical and Comprehensive Education per formula and/or criteria set by the Board.